	Application No.	Applicant(s)
Notice of Allowability	10/616,327	SUNAGA, TOSHIHIRO
	Examiner	Art Unit
	Houshang Safaipour	2625
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>an amendment filed on 11/0/07</u> .		
2. The allowed claim(s) is/are <u>1, 2, 4-9 and 11-14</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> </ul>	been received.	·
3.  Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)  1. Notice of References Cited (PTO-892)	5. 🔲 Notice of Informa	I Patent Application
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summa	
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail [ 7.	
Paper No./Mail Date <u>See Continuation Sheet</u> 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's State 9. □ Other	ment of Reasons for Allowance
Afr		

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 11/03, 01/04, 06/05, 11/05.

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## **DETAILED ACTION**

## Reasons for Allowance

Claims 3 and 10 are canceled.

Claims 1, 2, 4-9 and 11-14 are allowed.

This is examiner's statement of reasons for allowance.

Claims 1, 2, 5-9 and 12-14 are allowed over the prior art of record because the prior art does not disclose an imaging optical system comprising "...wherein an optical path of a light beam passing through a center of the diaphragm and a center of an image obtained through the imaging is deflected by the off-axial reflection surfaces within a surface perpendicular to the long side direction of the region to undergo crossing at least once wherein all of the off-axial reflection surfaces satisfy a conditional expression:

|P|S 0.5

where P (mm<sup>-1)</sup>) represents an optical power of the off-axial reflection surface within the surface perpendicular to the long side direction and S (mm) represents a distance from the off-axial reflection surface to a subsequent one of the off-axial reflection surfaces alon~ a reference axis."

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satisfy a relation: 0.65< X/Y< 1.6."

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Claims 4 and 11 are allowed over the prior art of record because the prior art does not disclose an imaging optical system comprising "a first set of a plurality of off-axial reflection surfaces arranged on an object surface side from the diaphragm; and a second set of a plurality of off-axial reflection surfaces arranged on an image surface side from the diaphragm, wherein an optical path of a light beam passing through a center of said diaphragm and a center of an image obtained through the imaging is deflected by said off-axial reflection surfaces within a surface perpendicular to said long side direction of said object region to undergq crossing at least once, and, wherein the number (X) of off-axial reflection surfaces included in

the first set of the plurality of off-axial reflection surfaces and the number (Y) of off-axial

reflection surfaces included in the second set of the plurality of off-axial reflection surfaces

The features identified, in combination with other claim limitations, are neither suggested nor discussed by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Houshang Safaipour whose telephone number is (571)272-7412. The examiner can normally be reached on Mon.-Fri. from 6:00am to 2:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Moore can be reached on (571)272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Houshang Safaipour Patent Examiner Art Unit 2625 November 24, 2007 High.